In the Claims

1-61 (canceled).

- 62 (new). An antibody that induces superagonistic signaling by a cell surface receptor, wherein said antibody binds to the extracellular portion of the receptor at a membrane proximal region and said receptor comprises a cytoplasmic domain which is dependent on an extrinsic protein kinase, wherein said antibody does not bind only the C'-D loop of human CD28.
 - 63 (new). The antibody according to claim 62, wherein said antibody:
 - (i) binds orthogonally to the main axis of the domain of the receptor which it is binding, and/or
 - (ii) which lies parallel to the cell surface when bound to the receptor, and/or
 - (iii) which binds to a β -strand polypeptide chain of the receptor, and/or
 - (iv) which binds within 75Å of the cell surface.
 - 64 (new). The antibody according to claim 62, wherein said receptor
 - (i) comprises an ITAM motif, ITIM motif or "switch" signaling motif, and/or
 - (ii) is a member of the CD28 family of proteins, and/or
 - (iii) is expressed on the surface of a cell of the immune system, and/or
 - (iv) comprises a cytoplasmic domain capable of being phosphorylated by a Src kinase, and/or
 - (v) comprises a cytoplasmic domain capable of being dephosphorylated by CD45, and/or CD148, and/or another large receptor tyrosine phosphatase, and/or
 - (vi) is one of the receptors listed in Table 2.
- 65 (new). The antibody according to claim 62, wherein said cell surface receptor is CD28, CTLA-4, ICOS, PD-1 or BTLA.

66 (new). The antibody according to claim 62, wherein said antibody binds to an epitope selected from:

Protein	75 1 Y 3 X X X						
hPD-1	PALLVV;		,	QPGQDCRFR;	MSVVR;	NDSGTY;	LRAELR;
hBTLA	QSEHSI;	DPFEL;	KLNG;	QTSWK;	LHFEP;	NDNGSY;	TTLYV1;
Protein							The state of the s
hCD28	SPMLV;	AVNLS:	SLHKGLDSAVEVCV;	VYSKTGFNCD	G; FYLQN;	TDIYFC;	NGTIIHV;
hCTLA-4	PAVVL;	GIASFV;	TVLRQADSQVTEVCA	FLDDSICTG:	LTIQG;	TGLYIC;	NGTOIYV:
hICOS	YEMFI;	GVQIL;	QLLKGGQILCD;	VSIKSLKFCH	S; FFLYN;	ANYYFC:	TGGŸLHI:
					·		The state of the s
Protein				Andrew Control of the			
hCD28 GNY		SQQLQVYSKTGF;					
hCTLA-4			MGNELTFLDDS;				
hICOS		KTKGSGNTVSIKSLK; or					
hPD-1	LAAFPEDRSQPGQDCR.						
111121		LAAI	ribrisqr dqbck.				